Aeonian Biotech
Your choice for selective antibodies

TMA-validated antibodies

Cat nr AE00369 **Product Datasheet**

Rabbit Recombinant Antibody, AE401R to:

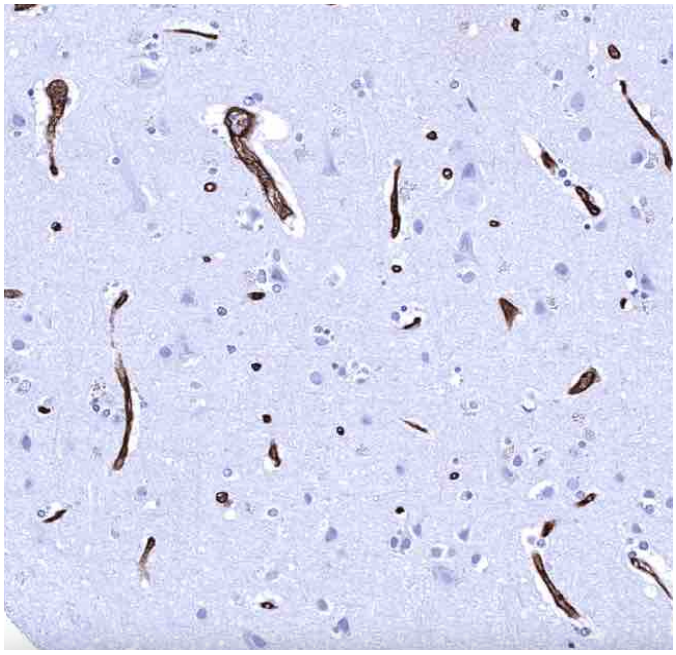
GLUT-1

solute carrier family 2 member 1; solute carrier family 2, facilitated glucose transporter member 1; Glucose transporter type 1, erythrocyte/brain; HepG2 glucose transporter; GLUT-1; GLUT1; CSE; DYT17; DYT18; DYT9; EIG12; GLUT; GLUT1DS; HTLVR; PED; SDCHCN; SLC2A1

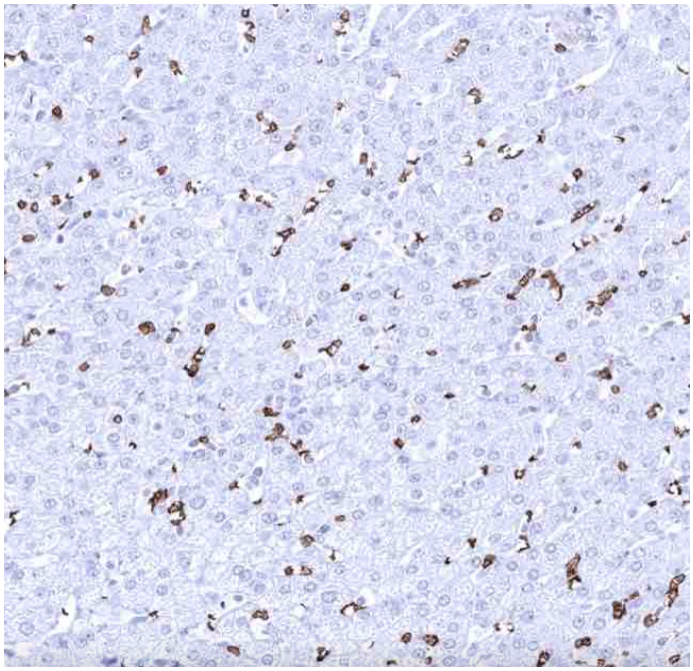
Cellular localization	cell surface, plasma membrane
Official Symbol (Gene)	SLC2A1
GeneID	6513
SwissProt	P11166
Confirmed Applications	IHC
Positive controls	bone marrow, cerebrum, placenta
Aeonian Rating©	92
Purification	By Protein A from bioreactor concentrate
Formulation	☐ 0.2 mg IgG/ml in PBS with 0.5% BSA & 0.05% azide. ☐ 0.2 mg IgG/ml in PBS with 0.05% azide, without BSA.
Amount	☐ 200ug ☐ 1000ug
Isotype	Rabbit IgG
Confirmed species reactivity	Human
Immunogen	Recombinant fragment of within the aa 203-305 region of human GLUT-1 protein
Epitope	Within the C-terminal aa 203-305 region
Storage instructions	Avoid repeated freeze/thaw cycles. For long term storage, keep small aliquots at -20C or -80C and keep one aliquot at 4C for daily experimentations. Azide will preserve antibody at 4C for 6-12 months, when kept away from direct sun light.
Expiration	Integrity warranted for 24 months after purchase when handled and stored according to instructions, see below.
Warranty	This product is only warranted for the specifications as described in this product sheet and only when the product is handled and stored according to instructions. User should validate this antibody in the application and tissue/cell type as required, after confirmation of integrity upon receipt is obtained by reproducing the performance as described below. Should such confirmation not be attempted, any warranty is void. In case of non-conformance, user needs to contact us immediately for replacement or refund.
Liability	This product is for in vitro research use only. Any other applications, such as diagnostics or therapeutics, or in vivo experiments, and the validation of this product therein, are solely at the responsibility of the buyer/user.
Product performance	see next pages

Product data:

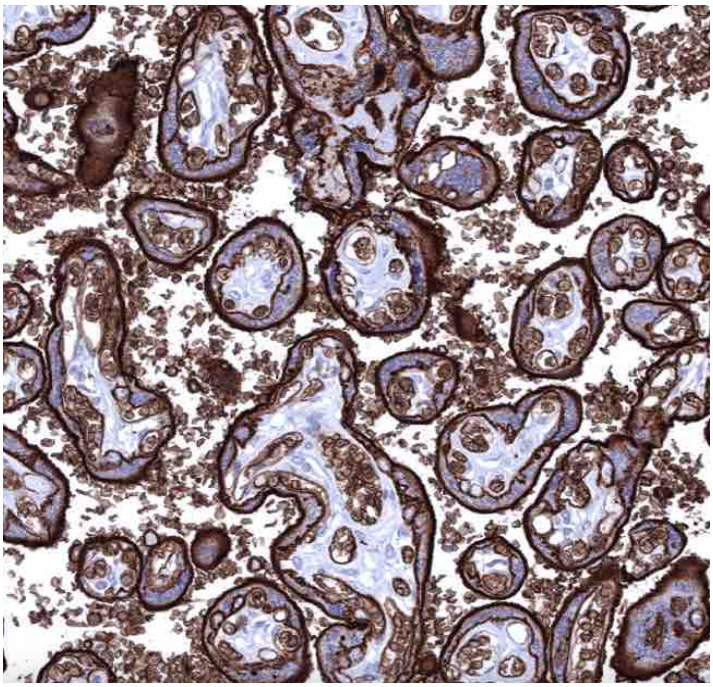
Immunohistochemistry (IHC):
This product was successfully used to stain plasma membranes of endothelial cells in human cerebrum, erythrocytes in human liver and trophoblasts in human placenta sections. Recommended concentration: 1-3ug/ml



Formaldehyde-fixed, paraffin-embedded human cerebrum stained with GLUT-1 Rabbit Recombinant Antibody AE00369 at 1-2ug/ml for 60 minutes at 37°C. Epitope retrieval: Autoclave at 121°C, pH7.8 for 5 min followed by 20 min cooling. DAB staining by HRP polymer.



Formaldehyde-fixed, paraffin-embedded human liver stained with GLUT-1 Rabbit Recombinant Antibody AE00369 at 1-2ug/ml for 60 minutes at 37°C. Epitope retrieval: Autoclave at 121°C, pH7.8 for 5 min followed by 20 min cooling. DAB staining by HRP polymer.



Formaldehyde-fixed, paraffin-embedded human placenta stained with GLUT-1 Rabbit Recombinant Antibody AE00369 at 1-2ug/ml for 60 minutes at 37°C. Epitope retrieval: Autoclave at 121°C, pH7.8 for 5 min followed by 20 min cooling. DAB staining by HRP polymer.

Tissue Microarray Validation:

Normal tissues

negative tissues containing significant positive erythrocytes are categorised as positive

Strong positive	Weak to moderate	No staining at all
adrenal gland (endothelium)	appendix mucosa (follicular	aorta endothelium
bone marrow (erythroblasts)	dendritic cells)	appendix muscular wall
cerebellum (endothelium)	ectocervix (epithelium)	colon muscular wall
cerebrum (endothelium)	endometrium (epithelial and	endocervix
colon mucosa (endothelium,	stromal cells)	parotid gland
erythrocytes)	epididymis (erythrocytes)	thymus
duodenum Brunner gland	esophagus squamous epithelium	thyroid gland epithelium
(erythrocytes)	fallopian tube (epithelium)	urinary bladder muscular wall
duodenum mucosa (endothelium,	gallbladder (erythrocytes)	
erythrocytes)	heart muscle (capillaries)	
ileum mucosa (endothelium,	kidney (capillary, collecting duct epithelium)	
erythrocytes)	liver (erythrocytes)	
lymph node (follicular dendtritic	lung (erythrocytes)	
cells, endothelial cells)	ovarian stroma (endothelium)	
placenta (endothelium,	parathyroid gland (erythrocytes)	
trophoblasts)	pituitary gland (endothelium, erythrocytes)	
spleen (erythrocytes)	prostate (basal cells)	
	tonsil (follicular dendritic cells, squamous epithelium)	
	urothelium	

Cancer tissues

Low presence of positive erythrocyte signals are ignored

Strong positive	Weak to moderate	No staining at all
colorectal adenocarcinoma	clear cell renal cell carcinoma	acinar cell carcinoma
anaplastic large cell lymphoma (ALK+)	esophagus adenocarcinoma	adrenal cortical adenoma
anaplastic thyroid carcinoma	Hodgkin's lymphoma	basal cell carcinoma
cervical squamous cell carcinoma		breast cancer no special type
esophagus squamous cell carcinoma		diffuse large B-cell lymphoma
gastric adenocarcinoma		gastrointestinal stromal tumor
high-grade serous carcinoma		granulosa cell tumor
Merkel cell carcinoma		hepatocellular carcinoma
pancreatic ductal adenocarcinoma		liposarcoma
skin squamous cell carcinoma		pancreas neuroendocrine tumor
urothelial carcinoma		papillary renal cell carcinoma
Warthin tumor		pheochromocytoma
		prostate adenocarcinoma
		seminoma